	Application No.	Applicant(s)
Notice of Allowability	09/963,717	KYOYA, MINORU
	Examiner	Art Unit
	Gabriel L. Chu	2114

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to *5 October 2005*.

2. ☒ The allowed claim(s) is/are *9-14*.

3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

    a) ☒ All   b) ☐ Some*   c) ☐ None of the:

       1. ☒ Certified copies of the priority documents have been received.

       2. ☐ Certified copies of the priority documents have been received in Application No. _____ .

       3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

    * Certified copies not received: _____ .

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.

5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.

    (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached

       1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____ .

    (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of
Paper No./Mail Date _____ .

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)

2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)

3. ☒ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date 20051005

4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material

5. ☐ Notice of Informal Patent Application (PTO-152)

6. ☒ Interview Summary (PTO-413), Paper No./Mail Date *20051122* .

7. ☒ Examiner's Amendment/Comment

8. ☐ Examiner's Statement of Reasons for Allowance

9. ☐ Other _____ .

EXAMINER'S AMENDMENT

1.   An examiner's amendment to the record appears below. Should the changes

and/or additions be unacceptable to applicant, an amendment may be filed as provided

by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be

submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview

with Joseph Fox on 22 November 2005.

The application has been amended from claims submitted 5 October 2005 as

indicated:

Referring to claim 9, "A computer readable medium storing a program to cause a

computer to execute a plurality of hierarchical control processes which are configured

as a hierarchy of data communication processes and for individually performing the

hierarchical control process corresponding to a level of the hierarchical data

communication processing, and a data transfer control process for controlling data

transfer among the plurality of hierarchical control processes, the program causing the

computer to execute:

in each of the hierarchical control processes,

accessing connection management information stored in a predetermined

memory area to manage data to be processed in a connection of data communication

processing;

detecting an anomalous event in data during a data communication process;

setting another hierarchical control as a destination of transmitting the data and an anomaly indication in data transmission information when an anomalous event is detected in the data communication process;

sending the data transmission information including the destination and the anomaly indication to the data transfer control process;

detecting whether or not an anomaly indication is included in a [[the]] data transmission information received from the data transfer control process, and

when the anomaly indication is detected in the [[receiving]]received data transmission information, discarding data which is to be processed in the connection corresponding to the data transmission information in which the anomaly indication is detected; and

in the data transfer control process,

storing data transmission control information on the basis of the data transmission information received from the hierarchical control processes;

detecting whether or not the anomaly indication is included in the [[receiving]]received data transmission information;

setting an anomaly indication in data transmission information when the anomaly indication is detected in the [[receiving]]received data transmission information; and

simultaneously transmitting the data transmission information to the hierarchical control processes except for the hierarchical control process in which [[the]]a first data transmission information was sent to the data transfer control process."

Referring to claim 10, "The computer readable medium according to claim 9, wherein

the program causes the computer to execute:

in the data transfer control process,

when the anomaly indication is detected in the [[receiving]]received data

transmission information, discarding the data to be processed and data transmission

control information corresponding to the connection in which the anomalous event is

detected."

Referring to claim 11, "A communication control method to cause a computer to execute

a plurality of hierarchical control processes which are configured as a hierarchy of data

communication processes and for individually performing the hierarchical control

process corresponding to a level of the hierarchical data communication processing,

and a data transfer control process for controlling data transfer among the plurality of

hierarchical control processes, the method comprising the steps of:

in each of the hierarchical control processes,

accessing connection management information stored in a predetermined

memory area to manage data to be processed in a connection of data communication

processing;

detecting an anomalous event in data during a data communication process;

setting another hierarchical control as a destination of transmitting the data and

an anomaly indication in data transmission information when an anomalous event is

detected in the data communication process;

sending the data transmission information including the destination and the

anomaly indication to the data transfer control process;

detecting whether or not an anomaly indication is included in [[the]]a data

transmission information received from the data transfer control process, and

when the anomaly indication is detected in the [[receiving]]received data

transmission information, discarding data which is to be processed in the connection

corresponding to the data transmission information in which the anomaly indication is

detected; and

in the data transfer control process,

storing data transmission control information on the basis of the data

transmission information received from the hierarchical control processes;

detecting whether or not the anomaly indication is included in the

[[receiving]]received data transmission information;

setting an anomaly indication in data transmission information when the anomaly

indication is detected in the [[receiving]]received data transmission information; and

simultaneously transmitting the data transmission information to the hierarchical

control processes except for the hierarchical control process in which [[the]]a first data

transmission information was sent to the data transfer control process."

Referring to claim 12, "A communication control method according to claim 11, wherein:

in the data transfer control process,

when the anomaly indication is detected in the [[receiving]]received data

transmission information, discarding the data to be processed and data transmission

control information corresponding to the connection in which the anomalous event is

detected."

Referring to claim 13, "A data processing apparatus comprising:

a plurality of hierarchical control processing means which are configured as a

hierarchy of data communication processing means and for individually performing the

hierarchical control processing means corresponding to a level of the hierarchical data

communication processing means, and

a data transfer control processing means for controlling data transfer among the

plurality of hierarchical control processing means,

wherein each of the hierarchical control processing means:

accesses connection management information stored in a predetermined

memory area to manage data to be processed in a connection of data communication

processing;

detects an anomalous event in data during a data communication process;

sets another hierarchical control as a destination of transmitting the data and an

anomaly indication in data transmission information when an anomalous event is

detected in the data communication process;

sends the data transmission information including the destination and the

anomaly indication to the data transfer control processing means;

detects whether or not an anomaly indication is included in [[the]]a data

transmission infonnation received from the data transfer control processing means, and

when the anomaly indication is detected in the [[receiving]]received data

transmission information, discards data which is to be processed in the connection

corresponding to the data transmission information in which the anomaly indication is

detected; and

wherein the data transfer control processing means:

stores data transmission control information on the basis of the data transmission

information received from the hierarchical control processing means;

detects whether or not the anomaly indication is included in the   .

[[receiving]]received data transmission information;

sets an anomaly indication in data transmission information when the anomaly

indication is detected in the [[receiving]]received data transmission information; and

simultaneously transmits the data transmission information to the hierarchical

control processing means except for the hierarchical control processing means in which

[[the]]a first data transmission information was sent to the data transfer control

processing means."

Referring to claim 14, "A data processing apparatus according to claim 13, wherein in

the data transfer control processing means, when the anomaly indication is detected in

the [[receiving]]received data transmission information, data to be processed and data

transmission control information corresponding to the connection in which the

anomalous event is detected are discarded."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Gabriel L. Chu whose telephone number is (571) 272-3656. The examiner can normally be reached on weekdays between 8:30 AM and 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Scott Baderman can be reached on (571) 272-3644. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

gc

SCOTT BADERMAN
PRIMARY EXAMINER